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Response to Notice of Non-Compliant Amendment dated November 20, 2008

Amendments to the Claims:

- 1-8. (Canceled)
- 9. (Currently amended) A method for preparing a DNA fragment corresponding to a nucleotide sequence of a 5' end region of an mRNA, wherein the region includes the most 5' end of the mRNA, comprising the steps of: The method according to claim 1, wherein step (a) comprises the steps of:
- (a) preparing a nucleic acid corresponding to a nucleotide sequence of the 5' end of an mRNA, wherein preparing the nucleic acid comprises:
- (i) synthesizing first-strand cDNAs using RNAs as a template and producing cDNA/RNA hybrids of the resulting first-strand cDNAs and the RNAs;
- (ii) selecting a particular cDNA/RNA hybrid that has the 5' cap structure of the mRNA using a selective binding substance which specifically recognizes the 5' cap structure; and
 - (iii) recovering a nucleic acid corresponding to the 5' end of the mRNA;
 - (b) attaching at least one linker to the nucleic acid;
- (c) cleaving the nucleic acid with a restriction enzyme having its recognition site within the linker and its cleavage site within the nucleic acid corresponding to the 5' end of the mRNA; and
 - (d) collecting a resulting DNA fragment corresponding to the 5' end of the mRNA.
- 10. (Original) The method according to claim 9, wherein the nucleic acid prepared in step (a) is a full-length cDNA, wherein the selective binding substance is attached to a support.
 - 11. (Canceled)
- 12. (Currently amended) A method for preparing a DNA fragment corresponding to a nucleotide sequence of a 5' end region of an mRNA, comprising the steps of, wherein the region

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includes the most 5' end of the mRNA: The method according to claim 1, wherein step (a) comprises the steps of:

- (a) preparing a nucleic acid corresponding to a nucleotide sequence of the 5' end of an mRNA, wherein preparing the nucleic acid comprises:
- (i) synthesizing first strand cDNAs using RNAs as a template and producing cDNA/RNA hybrids of the resulting first strand cDNAs and the RNAs;
- (ii) conjugating a selective binding substance to a 5' cap structure of an mRNA present in the RNAs;
- (iii) contacting the cDNA/RNA hybrids with a support, wherein another matching selective binding substance is fixed to the support, and the matching selective binding substance specifically binds to the selective binding substance; and
- (iv) recovering the a nucleic acid corresponding to the 5' end of the mRNA from the mRNA fixed to the support;
 - (b) attaching at least one linker to the nucleic acid;
- (c) cleaving the nucleic acid with a restriction enzyme having its recognition site within the linker and its cleavage site within the nucleic acid corresponding to the 5' end of the mRNA; and
 - (d) collecting a resulting DNA fragment corresponding to the 5' end of the mRNA.
- 13. (Previously Presented) The method according to claim 9, wherein the selective binding substance is a cap binding protein or a cap binding antibody.
- 14. (Original) The method according to claim 12, wherein the selective binding substance is biotin, and the matching selective binding substance is selected from the group consisting of avidin, streptavidin and a derivative therefrom which specifically binds to biotin.
- 15. (Original) The method according to claim 12, wherein the selective binding substance is digoxigenin and the matching selective binding substance is an antibody against digoxigenin.

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- 16. (Previously Presented) The method according to claim 10, wherein the support is made of magnetic beads, agarose beads, latex beads, sepharose matrix, silicagel matrix or glass beads.
- 17. (Currently amended) A method for preparing a DNA fragment comprising a nucleotide sequence of a 5' end region of an mRNA, wherein the region includes the most 5' end of the mRNA, comprising the steps of: The method according to claim 1, wherein step (b) comprises the steps of:
- (a) preparing a nucleic acid corresponding to a nucleotide sequence of the 5' end of an mRNA;
- (b) attaching at least one linker to the nucleic acid, wherein attaching the linker comprises the steps of:
- (i) attaching a linker to an end region corresponding to the nucleotide sequence of a 5' end region of the mRNA, wherein the linker carries at least one restriction enzyme recognition site for a restriction enzyme that cleaves a site different from its recognition sequence;
- (ii) synthesizing a <u>nucleic acid using the mRNA having the linker</u> secondstrand cDNA using the nucleic acid as a template;
- (iii) removing the mRNA; and treating a resulting linker-bound doublestranded cDNA with the restriction enzyme; and
- (iii) as a template; recovering a resulting fragment which contains a linker moiety and a part of eDNA corresponding to the 5' end regions of the mRNA.
- (c) cleaving the nucleic acid with a restriction enzyme having its recognition site within the linker and its cleavage site within the nucleic acid corresponding to the 5' end of the mRNA; and
 - (d) collecting a resulting DNA fragment corresponding to the 5' end of the mRNA.
 - 18. (Canceled)

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- 19. (Currently amended) The method according to claim 17, wherein the second-strand cDNA is synthesized using other oligonucleotides which are partially or totally complementary complement to the linker.
- 20. (Currently amended) The method according to claim 19 17, wherein a selective binding substance is attached to or included in the oligonucleotides linker, and the recovering step comprises the steps of binding the selective binding substance to a matching selective binding substance immobilized on a support, and recovering the support, wherein the matching selective binding substance specifically binds to the selective binding substance.
- 21. (Original) The method according to claim 20, wherein the selective binding substance is biotin, and the matching selective binding substance is selected from the group consisting of avidin, streptavidin and a derivative therefrom which specifically binds to biotin.
- 22. (Original) The method according to claim 20, wherein the selective binding substance is digoxigenin, and the matching selective binding substance is an antibody against digoxigenin.
- 23. (Original) The method according to claim 17, wherein the restriction enzyme is the Class II or Class III restriction enzyme.
- 24. (Original) The method according to claim 17, wherein the restriction enzyme is the Class IIG and Class IIS restriction enzymes.
- 25. (Original) The method according to claim 23, wherein the restriction enzyme is selected from the group consisting of Gsu I, MmeI, BpmI, BsgI and EcoP15I.

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26-33. (Canceled)

- 34. (Withdrawn) A concatemer prepared by the method according to claim 33.
- 35. (Withdrawn) A vector comprising the concatemer according to claim 34.
- 36. (Withdrawn) A sequence derived from the concatemer according to claim 34.
- 37. (Withdrawn) The method for determining the transcriptional states of a sample using a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 38. (Withdrawn) The method for obtaining expression data on a plurality of mRNAs or cDNAs in a sample using a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 39. (Withdrawn) The method quantifying expression data on a plurality of mRNAs in a sample using a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 40. (Withdrawn) The method for building a database holding sequence information using a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 41. (Withdrawn) The method identifying transcribed regions from a genomic sequence using a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 42. (Withdrawn) The method for identifying a transcription initiation site and a related regulatory sequence in a genomic sequence using a sequence derived from the DNA fragment prepared by the method according to claim 1.

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- 43. (Withdrawn) The method for cloning a full-length or partial cDNA from a cDNA library or biological sample using a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 44. (Withdrawn) The method for cloning a complete or partial promoter region of a gene from a genomic library or genomic DNA using a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 45. (Withdrawn) The method for analyzing the activity of regulatory regions in a genome based on genomic sequence information using a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 46. (Withdrawn) The method for inactivating a gene or altering its expression using a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 47. (Withdrawn) The method according to claim 46, wherein the gene is inactivated or altered in its expression by the means of siRNA or RNAi.
- 48. (Withdrawn) The method for synthesizing a nucleotide sequence to be used as the linker or primer based on a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 49. (Withdrawn) The method for synthesizing a hybridization probe based on a sequence derived from the DNA fragment prepared by the method according to claim 1.
- 50. (Withdrawn) The method according to claim 49, wherein the hybridization probe is attached to a support.

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51. (Withdrawn) The method according to claim 49, wherein the hybridization probe is a probe to identify the sequence corresponding to the nucleotide sequence of the 5' end region of the mRNA.

52-56. (Canceled)

- 57. (Previously Presented) The method according to claim 10, wherein the selective binding substance is a cap binding protein or a cap binding antibody.
- 58. (Previously Presented) The method according to claim 12, wherein the support is made of magnetic beads, agarose beads, latex beads, sepharose matrix, silicagel matrix or glass beads.